

# **FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL**

## **OFFICE OF AIR QUALITY**

**Standard Asphalt  
12598 S. Main Street  
Clinton, Indiana 47842**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F165-14174-03227	
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: February 20, 2002  Expiration Date: February 20, 2007

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## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

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The Permittee owns and operates a stationary hot batch-mix asphalt plant:

Authorized individual:	Bruce Speth
Source Address:	12598 S. Main Street, Clinton, Indiana 47842
Mailing Address:	P.O. Box 249, Clinton, Indiana 47842
SIC Code:	2951
Source Location Status:	Vermillion
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD; Minor Source, Section 112 of the Clean Air Act

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) aggregate dryer/mixer with a maximum capacity of 150 tons per hour, having a burner with a maximum heat input rate of 129 million British thermal units per hour, exhausting through twin cyclones and a scrubber at stack SV1. The burner is fired by #4 distillate fuel oil, including #2 distillate fuel oil as a backup fuel.

### A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

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This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Space heaters, process heaters, heat treat furnaces, or boilers using the following fuel:  
Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight.
  - (1) Two (2) hot oil heaters each with a maximum heat input rate of 1.9 million British thermal units per hour, fired only by #2 distillate fuel oil containing less than 0.5 percent sulfur by weight.
- (b) Paved and unpaved roads and parking lots with public access.
- (c) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (d) The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
  - (1) Plant maintenance activities, including grinding, welding, and sanding.

- (e) Emission units with PM and PM10 emissions less than five (5) tons per year, SO<sub>2</sub>, NO<sub>x</sub>, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year:
  - (1) One (1) material conveying and handling operation.
  - (2) One (1) 30,000 gallon storage tank ID#14 for #2 distillate fuel oil.
  - (3) One (1) 12,000 gallon storage tank ID#15 for liquid asphalt emulsion AE-90.
  - (4) One (1) 7,000 gallon storage tank ID#16 for liquid asphalt emulsion AE-T.
  - (5) One (1) 25,000 gallon storage tank ID#17 for liquid asphalt AC-20.
  - (6) One (1) 20,000 gallon storage tank ID#18 for liquid asphalt AC-20.
  - (7) One (1) 25,000 gallon storage tank ID#19 for liquid asphalt AC-20.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

## SECTION B GENERAL CONDITIONS

### B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

### B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

### B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

### B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

### B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

### B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee

shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]

- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

**B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]**

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IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

**B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]**

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- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
  - (1) Enforcement action;
  - (2) Permit termination, revocation and reissuance, or modification; and
  - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

**B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]**

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- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

**B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]**

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- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]**

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.



**B.14 Emergency Provisions [326 IAC 2-8-12]**

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for Compliance Section)  
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAQ, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
  - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

**B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]**

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination**  
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.17 Permit Renewal [326 IAC 2-8-3(h)]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

- (1) A timely renewal application is one that is:
  - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]  
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

**B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]**

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
  
Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

**B.19 Operational Flexibility [326 IAC 2-8-15]**

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- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
  - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
  - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

- (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]  
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

**B.20 Permit Revision Requirement [326 IAC 2-8-11.1]**

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

**B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

**B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source
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### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

#### C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD));
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.



C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

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The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

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The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

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Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.7 Stack Height [326 IAC 1-7]

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The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited, pursuant to the provisions of 40 CFR 61, Subpart M, is federally enforceable.

### **Testing Requirements [326 IAC 2-8-4(3)]**

#### **C.9 Performance Testing [326 IAC 3-6]**

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- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

## **Compliance Requirements [326 IAC 2-1.1-11]**

### **C.10 Compliance Requirements [326 IAC 2-1.1-11]**

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

## **Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

### **C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

### **C.12 Maintenance of Emission Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]**

- (a) In the event that a breakdown of the emission monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than once an hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

### **C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

### **C.14 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]**

- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.
- (b) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

**Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

within ninety (90) days from the date of issuance of this permit.

The ERP does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

**C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]**

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If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

All documents submitted pursuant to this condition shall include the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

**C.17 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]**

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- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this

permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:

- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
  - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
  - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
  - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
  - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
  - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
  - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
  - (3) An automatic measurement was taken when the process was not operating.
  - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred,

the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.

- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

**C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]  
[326 IAC 2-8-5]**

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

**C.19 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]**

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- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

**C.20 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]**

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- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

#### **Stratospheric Ozone Protection**

##### **C.21 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

## SECTION D.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

- (a) One (1) aggregate dryer/mixer with a maximum capacity of 150 tons per hour, having a burner with a maximum heat input rate of 129 million British thermal units per hour, exhausting through twin cyclones and a scrubber at stack SV1. The burner is fired by #4 distillate fuel oil, including #2 distillate fuel oil as a backup fuel.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the aggregate dryer/mixer shall each not exceed 55 pounds per hour when operating at a process weight rate of 300,000 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

The twin cyclones and scrubber shall be in operation at all times the aggregate dryer/mixer is in operation, in order to comply with this limit.

#### D.1.2 Particulate Matter Less Than Ten Microns (PM-10) [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the emissions of PM-10 from the aggregate dryer/mixer shall be limited to 0.14 pounds of PM-10 per ton of asphalt produced. This is equivalent to PM-10 emissions of 92 tons per year. Compliance with this limit makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

#### D.1.3 Sulfur Dioxide (SO<sub>2</sub>) and Nitrogen Oxides (NO<sub>x</sub>) [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the total usage of #4 fuel oil for the aggregate dryer/mixer shall be limited to 2,415,200 gallons per twelve consecutive month period. For the purpose of determining compliance with this limit, one gallon of #2 fuel oil shall be considered equivalent to 0.93 gallons of #4 fuel oil. This usage limit is equivalent to SO<sub>2</sub> emissions of 90.6 tons per year and NO<sub>x</sub> emissions of 56.8 tons per year. The SO<sub>2</sub> and NO<sub>x</sub> emissions for the whole source, including controls and limits are 99.0 tons per year and 59.2 tons per year, respectively. Compliance with this limit makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

#### D.1.4 Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-1.1-1] [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO<sub>2</sub> emissions from the combustion of the #4 fuel oil or the back-up #2 fuel oil shall not exceed five tenths (0.5) pounds per million Btu heat input.



D.1.5 Volatile Organic Compounds (VOC) (326 IAC 2-8-4)

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1. Pursuant to 326 IAC 2-8-4, the VOC solvent used as diluent in the liquid binder used in cold mix asphalt production from the plant shall be limited such that no more than 98.7 tons of VOC emissions emitted per twelve (12) consecutive months. This shall be achieved by limiting the total VOC solvent of any one selected binder to not exceed the stated limit in (c) for that binder during the last twelve (12) months. When more than one binder is used, the formula in (c)(6) must be applied so that the total VOC emitted does not exceed 98.7 tons per twelve (12) consecutive month period.
- (b) Liquid binders used in the production of cold mix asphalt shall be defined as follows:
2. Cut back asphalt rapid cure, containing a maximum of 25.3% of the liquid binder by weight of VOC solvent and 95% by weight of VOC solvent evaporating.
  - (2) Cut back asphalt medium cure, containing a maximum of 28.6% of the liquid binder by weight of VOC solvent and 70% by weight of VOC solvent evaporating.
  - (3) Cut back asphalt slow cure, containing a maximum of 20% of the liquid binder by weight of VOC solvent and 25% by weight of VOC solvent evaporating.
  - (4) Emulsified asphalt with solvent, containing a maximum of 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, must be 7% or less of the total emulsion by volume
  - (5) Other asphalt with solvent binder, containing a maximum 25.9% of the liquid binder of VOC solvent and 2.5% by weight of the VOC solvent evaporating
- (c) The liquid binder used in cold mix asphalt production shall be limited as follows:
- (1) Cutback asphalt rapid cure liquid binder usage shall not exceed 98.7 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
  - (2) Cutback asphalt medium cure liquid binder usage shall not exceed 134.2 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
  - (3) Cutback asphalt slow cure liquid binder usage shall not exceed 375.1 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
  - (4) Emulsified asphalt with solvent liquid binder usage shall not exceed 201.3 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
  - (5) Other asphalt with solvent liquid binder shall not exceed 3,750.6 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
  - (6) The VOC solvent allotments in subpart (c)(1) through (c)(5) of this condition shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period rolled on a monthly basis. In order to determine the tons of VOC emitted per each type of binder, use the following formula and

divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

$$\frac{\text{Tons of solvent contained in binder}}{\text{Adjustment ratio}} = \text{tons of VOC emitted}$$

Type of Binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Rapid Cure		1	
Cutback Asphalt Medium Cure		1.36	
Cutback Asphalt Slow Cure		3.8	
Emulsified Asphalt		2.04	
Other Asphalt		38	

The equivalent total tons of VOC of the combined liquid binders shall be less than 98.7 tons per twelve (12) consecutive month period rolled on a monthly basis. Compliance with this limit will make 326 IAC 2-7 and 326 IAC 2-2 not applicable.

#### D.1.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

### Compliance Determination Requirements

#### D.1.7 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 129 MMBtu per hour burner, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

**D.1.8 Testing Requirements [326 IAC 2-8-4(3)]**

The Permittee shall perform PM-10 testing utilizing methods as approved by the Commissioner to document compliance with Condition D.1.2. This test shall be repeated at least once every five years from the date of the last valid compliance demonstration. PM-10 includes filterable and condensible PM

**D.1.9 Particulate Matter (PM)**

In order to comply with D.1.1 and D.1.2, the twin cyclones and scrubber for PM and PM-10 control shall be in operation and control emissions from the aggregate dryer/mixer and burner at all times that the aggregate dryer/mixer are in operation.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**D.1.10 Visible Emissions Notations**

- (a) Visible emission notations of the aggregate dryer/mixer and burner stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

**D.1.11 Cyclone Inspections**

An inspection shall be performed each calendar quarter of all cyclones controlling the aggregate dryer and burner when venting to the atmosphere. A cyclone inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors.

**D.1.12 Cyclone Failure Detection**

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

#### D.1.13 Monitoring of Scrubber Operational Parameters

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The Permittee shall record the water pump pressure, the fan motor amperage, and the pressure drop across the scrubber used in conjunction with the aggregate dryer/mixer, at least once per shift when the aggregate dryer/mixer is in operation when venting to the atmosphere. If the water pump pressure and the fan motor amperage are abnormal, these systems shall be immediately checked and restored to proper operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

### **Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

#### D.1.14 Record Keeping Requirements

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- (a) To document compliance with Condition D.1.10, the Permittee shall maintain records of visible emission notations of the hot mix asphalt facility stack exhaust.
- (b) To document compliance with Condition D.1.13, the Permittee shall maintain the following:
  - (1) Weekly records of the following operational parameters during normal operation when venting to the atmosphere:
    - (A) Pressure drop across the scrubber.
- (c) To document compliance with Condition D.1.11, the Permittee shall maintain records of the results of the inspections required under Condition D.1.11 and the dates the vents are redirected.
- (d) To document compliance with Condition D.1.3 and D.1.7, the Permittee shall maintain records in accordance with (1) through (6) below.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
  - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1); and  
  
If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:
    - (4) Fuel supplier certifications.
    - (5) The name of the fuel supplier; and

- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (e) To document compliance with Condition D.1.5 Volatile Organic Compounds, VOC records shall document VOC usage as follows:
- (1) Amount and type of liquid binder used in the production of cold mix asphalt each day.
  - (2) Type and VOC, solvent content by weight of the liquid binder used in the production of cold mix asphalt each day.
  - (3) Amount of VOC, solvent used in the production of cold mix asphalt each day.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.15 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.3 and D.1.5 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

## SECTION D.2

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Space heaters, process heaters, heat treat furnaces, or boilers using the following fuel: Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight.
  - (1) Two (2) hot oil heaters each with a maximum heat input rate of 1.9 million British thermal units per hour, fired only by #2 distillate fuel oil containing less than 0.5 percent sulfur by weight.
- (b) Paved and unpaved roads and parking lots with public access.
- (c) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (d) The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
  - (1) Plant maintenance activities, including grinding, welding, and sanding.
- (e) Emission units with PM and PM10 emissions less than five (5) tons per year, SO<sub>2</sub>, NO<sub>x</sub>, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year:
  - (1) One (1) material conveying and handling operation.
  - (2) One (1) 30,000 gallon storage tank ID#14 for #2 distillate fuel oil.
  - (3) One (1) 12,000 gallon storage tank ID#15 for liquid asphalt emulsion AE-90.
  - (4) One (1) 7,000 gallon storage tank ID#16 for liquid asphalt emulsion AE-T.
  - (5) One (1) 25,000 gallon storage tank ID#17 for liquid asphalt AC-20.
  - (6) One (1) 20,000 gallon storage tank ID#18 for liquid asphalt AC-20.
  - (7) One (1) 25,000 gallon storage tank ID#19 for liquid asphalt AC-20.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.2.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the welding operation shall be limited by the following:

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and  
P = process weight rate in tons per hour

#### D.2.2 Process Operations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the material conveying and handling operations shall each not exceed 55 pounds per hour when operating at a process weight rate of 300,000 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40$$

where E = rate of emission in pounds per hour; and  
P = process weight rate in tons per hour

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
CERTIFICATION**

Source Name: Standard Asphalt  
Source Address: 12598 S. Main Street, Clinton, Indiana 47842  
Mailing Address: P.O. Box 249, Clinton, Indiana 47842  
FESOP No.: 165-14174-03227

**This certification shall be included when submitting monitoring, testing reports/results  
or other documents as required by this permit.**

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) \_\_\_\_\_
- 9 Report (specify) \_\_\_\_\_
- 9 Notification (specify) \_\_\_\_\_
- 9 Affidavit (specify) \_\_\_\_\_
- 9 Other (specify) \_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:



**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
P.O. Box 6015  
100 North Senate Avenue  
Indianapolis, Indiana 46206-6015  
Phone: 317-233-5674  
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY OCCURRENCE REPORT**

Source Name: Standard Asphalt  
Source Address: 12598 S. Main Street, Clinton, Indiana 47842  
Mailing Address: P.O. Box 249, Clinton, Indiana 47842  
FESOP No.: 165-14174-03227

**This form consists of 2 pages**

**Page 1 of 2**

**9** This is an emergency as defined in 326 IAC 2-7-1(12)  
CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and  
CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: Standard Asphalt  
Source Address: 12598 S. Main Street, Clinton, Indiana 47842  
Mailing Address: P.O. Box 249, Clinton, Indiana 47842  
FESOP No.: 165-14174-03227  
Facility: Hot oil heater  
Parameter: SO<sub>2</sub> and NO<sub>x</sub>  
Limit: 2,415,200 gallons per twelve consecutive month period and a sulfur content of no more than 0.5%, which is equivalent to 56.8 tpy of NO<sub>x</sub> and 90.6 tpy of SO<sub>2</sub>.

YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**Single Liquid Binder Solvent Quarterly Report**

Source Name: Standard Asphalt  
Source Address: 12598 S. Main Street, Clinton, Indiana 47842  
Mailing Address: P.O. Box 249, Clinton, Indiana 47842  
FESOP No.: 165-14174-03227  
Facility: Asphalt Plant  
Parameter: VOC  
Limit: Cutback asphalt rapid cure liquid binder usage shall not exceed 98.7 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.  
Cutback asphalt medium cure liquid binder usage shall not exceed 134.2 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.  
Cutback asphalt slow cure liquid binder usage shall not exceed 375.1 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.  
Emulsified asphalt with solvent liquid binder usage shall not exceed 201.3 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.  
Other asphalt with solvent liquid binder shall not exceed 3,750.6 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

YEAR: \_\_\_\_\_

**The following liquid binder solvent was the only liquid binder solvent used over the previous 12 month period:** \_\_\_\_\_ **Limit applicable:** \_\_\_\_\_

(use of more than one binder requires the use of the "Multiple Liquid Binder Solvents" report form)

Month	Column 1	Column 2	Column 1 + Column 2
	This Month (tons)	Previous 11 Months (tons)	12 Month Total (tons)
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this reporting period.

9 Deviation/s occurred in this reporting period.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**Multiple Liquid Binder Solvent Quarterly Report**

Source Name: Standard Asphalt  
Source Address: 12598 S. Main Street, Clinton, Indiana 47842  
Mailing Address: P.O. Box 249, Clinton, Indiana 47842  
FESOP No.: 165-14174-03227  
Facility: Asphalt Plant  
Parameter: VOC  
Limit:: 98.7 tons per year  
Year:

Month	Type of Liquid binder	Solvent Usage This Month (tons)	Divisor	VOC emitted This Month (tons) for each solvent	VOC emitted This Month (tons)	VOC emitted Previous 11 Months (tons)	This month + Previous 11 months =VOC emitted 12 Month Total(tons)
Month 1	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				
Month 2	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				
Month 3	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				

9 No deviation occurred in this reporting period.

9 Deviation/s occurred in this reporting period.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_  
Title / Position: \_\_\_\_\_ Phone: \_\_\_\_\_  
Signature: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Standard Asphalt  
Source Address: 12598 S. Main Street, Clinton, Indiana 47842  
Mailing Address: P.O. Box 249, Clinton, Indiana 47842  
FESOP No.: 165-14174-03227

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

February 20, 2002

Indiana Department of Environmental Management  
Office of Air Quality

Addendum to the Permit for Federally Enforceable State Operating Permit  
(FESOP)

Source Background and Description

Source Name: Standard Asphalt  
Source Location: 12598 South Main Street, Clinton, Indiana 47842  
County: Vermillion  
SIC Code: 2951  
Operation Permit No.: 165-14174-03227  
Permit Reviewer: ERG/AR

On December 18, 2001, the Office of Air Quality (OAQ) had a notice published in Daily Clintonian, Clinton, Indiana, stating that Standard Asphalt had applied for a Federally Enforceable State Operating Permit (FESOP) renewal to operate a stationary batch hot-mix asphalt plant. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table Of Contents has been modified to reflect these changes.

1. A.5 Prior Permit Conditions Superseded was added to the permit to help clarify the intent of the new rule 326 IAC 2-1.9.5.

~~A.5 Prior Permit Conditions~~

- 
- ~~(a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.~~
- ~~(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAQ, **(and local agency when applicable)** shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued.~~

**A.6 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

- 
- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either**
- (1) incorporated as originally stated,**
  - (2) revised, or**
  - (3) deleted**



**by this permit.**

**(b) All previous registrations and permits are superseded by this permit.**

2. The IDEM, OAQ, has revised Condition B.15 Deviations from Permit Requirements and Conditions and certain Parametric Monitoring conditions in the D section of the permit to address concerns regarding the independent enforceability of permit conditions [see 326 IAC 2-8-4(5)]. The Parametric Monitoring Condition D.1.13 have been revised to establish normal operating conditions for the emission unit or control device and to require implementation of the compliance response plan when monitoring indicates operation is outside the normal range. Language that inferred that operating outside of the normal range could be considered by itself to be a deviation was removed. B.15 was revised to remove language that could be considered to grant exemptions from permit requirements and to clarify reporting obligations.

**B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]**

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- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. ~~Deviations that are required to be reported by an applicable requirement~~ **A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit**, shall be reported according to the schedule stated in the applicable requirement and ~~do does~~ not need to be included in this report.

~~The notification by the Permittee~~ **Quarterly Deviation and Compliance Monitoring Report** does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit ~~or a rule. It does not include:~~

(1) ~~An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or~~

(2) ~~Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.~~

~~A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.~~

- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

**D.1.13 Monitoring of Scrubber Operational Parameters**

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The Permittee shall record the water pump pressure, the fan motor amperage, and the pressure drop across the scrubber used in conjunction with the aggregate dryer/mixer, at least once per shift when the aggregate dryer/mixer is in operation when venting to the atmosphere. If the water pump pressure and the fan motor amperage are abnormal, these systems shall be immediately checked and restored to proper operation. ~~Unless operated under conditions for~~

~~which the Compliance Response Plan specifies otherwise~~ **When for any one reading, the pressure drop across the scrubber shall be maintained within is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test -The , the Permittee shall take reasonable steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. A pressure reading that is outside the above mentioned range is not a deviation from this permit.** Failure to take response steps in accordance with Section C - Compliance ~~Monitoring~~ **Response Plan - Preparation, Implementation, Records, and Reports,** shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

3. 326 IAC 2-8-3 requires any application form, report, or compliance certification to be certified by the authorized individual. IDEM, OAQ has revised C.8 Asbestos Abatement Projects to clarify that the asbestos notification does not require a certification by the authorized individual, but it does need to be certified by the owner or operator. IDEM, OAQ has revised C.18 Actions Related to Noncompliance Demonstrated by a Stack Test; a certification by the authorized individual is required for the notification sent in response to non-compliance with a stack test.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality

100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

**The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.** The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) Procedures for Asbestos Emission Control  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Indiana Accredited Asbestos Inspector  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited, pursuant to the provisions of 40 CFR 61, Subpart M, is federally enforceable.

C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]  
[326 IAC 2-8-5]

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do ~~not~~ require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- 4. The IDEM, OAQ has restructured C.17 to clarify the contents and implementation of the compliance response plan. The name of the condition has changed to better reflect the contents of the condition. The language regarding the OAQ's discretion to excuse failure to perform monitoring under certain conditions has been deleted. The OAQ retains this discretion to excuse minor incidents of missing data; however, it is not necessary to state criteria regarding the exercise of that discretion in the permit. The title Compliance Monitoring Plan has been changed to Compliance Response Plan throughout the permit.

C.17 Compliance Monitoring **Response Plan - Preparation, Implementation, Records, and Reports** [326 IAC 2-8-4] [326 IAC 2-8-5]

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- (a) The Permittee is required to **prepare** implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. The compliance monitoring plan can be either an entirely new document, consist in whole of information contained in other documents, or consist of a combination of new information and information contained in other documents. If the compliance monitoring plan incorporates by reference information contained in other documents, the Permittee shall identify as part of the compliance monitoring plan the documents in which the information is found. The elements of the compliance monitoring plan are:
- (1) ~~This condition;~~
  - (2) ~~The Compliance Determination Requirements in Section D of this permit;~~
  - (3) ~~The Compliance Monitoring Requirements in Section D of this permit;~~
  - (4) ~~The Record Keeping and Reporting Requirements in Section C (General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and~~
  - (5) ~~A~~ **a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP's shall be submitted to IDEM, OAQ upon request and shall be subject to review and approval by IDEM, OAQ. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, and maintained on site, and is comprised of:**
    - ~~(A)~~**(1) Reasonable response steps that may be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.**
    - ~~(B) A time schedule for taking reasonable response steps including a schedule for devising additional response steps for situations that may not have been predicted.~~
- (2) **If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.**
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition **as follows:** Failure to take reasonable response steps may constitute a violation of the permit.
- (1) **Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or**
  - (2) **If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a**

**deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.**

- (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.**
- (4) Failure to take reasonable response steps shall constitute a violation of the permit.**
- ~~(c) Upon investigation of a compliance monitoring excursion, the~~ **The Permittee is excused from taking not required to take any** further response steps for any of the following reasons:

  - ~~(1) A false reading occurs due to the malfunction of the monitoring equipment and This shall be an excuse from taking further response steps providing that~~ prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
  - (3) An automatic measurement was taken when the process was not operating.
  - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.**
- ~~(d)(e)~~ Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken: **The Permittee shall record all instances when response steps are taken.** In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- ~~(e)(f)~~ **Except as otherwise provided by a rule or provided specifically in Section D,** all monitoring as required in Section D shall be performed at all times when the equipment emission unit is operating, **except for time necessary to perform quality assurance and maintenance activities.** If monitoring is required by Section D and the equipment is not operating, then the Permittee may record the fact that the equipment is not operating or perform the required monitoring.
- ~~(f)~~ At its discretion, IDEM may excuse the Permittee's failure to perform the monitoring and record keeping as required by Section D, if the Permittee provides adequate justification and documents that such failures do not exceed five percent (5%) of the operating time in any quarter. Temporary, unscheduled unavailability of qualified staff shall be considered a valid reason for failure to perform the monitoring or record keeping requirements in Section D.

**February 20, 2002**

**Indiana Department of Environmental Management  
Office of Air Quality**

**Technical Support Document (TSD) for a Federally Enforceable Operating  
Permit (FESOP) Renewal**

**Source Background and Description**

Source Name: Standard Asphalt  
Source Location: 12598 S. Main Street, Clinton, Indiana 47842  
County: Vermillion  
SIC Code: 2951  
Operation Permit No.: F165-14174-03227  
Permit Reviewer: ERG/AR

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Standard Asphalt, relating to the operation of a stationary hot batch-mix asphalt plant. Standard Asphalt, was issued FESOP 165-5566-03227 on December 9, 1996.

**Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) aggregate dryer/mixer with a maximum capacity of 150 tons per hour, having a burner with a maximum heat input rate of 129 million British thermal units per hour, exhausting through twin cyclones and a scrubber at stack SV1. The burner is fired by #4 distillate fuel oil, including #2 distillate fuel oil as a backup fuel.

**Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted facilities operating at this source during this review process.

**New Emission Units and Pollution Control Equipment Receiving New Source Review Approval**

There are no new emission units and pollution control equipment receiving new source review approval at this source during this review process.

**Insignificant Activities**

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Space heaters, process heaters, heat treat furnaces, or boilers using the following fuel:  
Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight.
  - (1) Two (2) hot oil heaters each with a maximum heat input rate of 1.9 million British thermal units per hour, fired only by #2 distillate fuel oil containing less than 0.5 percent sulfur by weight.
- (b) Paved and unpaved roads and parking lots with public access.

- (c) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (d) The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
  - (1) Plant maintenance activities, including grinding, welding, and sanding.
- (e) Emission units with PM and PM10 emissions less than five (5) tons per year, SO<sub>2</sub>, NO<sub>x</sub>, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year:
  - (1) One (1) material conveying and handling operation.
  - (2) One (1) 30,000 gallon storage tank ID#14 for #2 distillate fuel oil.
  - (3) One (1) 12,000 gallon storage tank ID#15 for liquid asphalt emulsion AE-90.
  - (4) One (1) 7,000 gallon storage tank ID#16 for liquid asphalt emulsion AE-T.
  - (5) One (1) 25,000 gallon storage tank ID#17 for liquid asphalt AC-20.
  - (6) One (1) 20,000 gallon storage tank ID#18 for liquid asphalt AC-20.
  - (7) One (1) 25,000 gallon storage tank ID#19 for liquid asphalt AC-20.

### Existing Approvals

FESOP 165-5566-03227, issued on December 9, 1996 and expiring on December 9, 2001.

All conditions from previous approvals were incorporated into this FESOP except the following:

Condition D.1.2 limited the total usage of distillate #4 fuel oil to 2,554,929 gallons per year based on a fixed monthly usage. This value was recalculated based on a twelve (12) month consecutive period using a maximum sulfur content of 0.5%. The new #4 fuel oil limit is 2,415,200 gallons per twelve (12) consecutive month period. The difference can be contributed to updated emission factors.

Condition D.1.4 the VOC usage limit in the production of cold mix cutback asphalt was replaced with a new limited based on 326 IAC 2-8 (Miscellaneous Operations: Asphalt Paving).

### Enforcement Issue

There are no enforcement actions pending.

### Recommendation

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP Renewal application for the purposes of this review was received on March 13, 2001.

There was no notice of completeness letter mailed to the source.

### Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 through 12).

### Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	21073.2
PM-10	2969.6
SO <sub>2</sub>	290.9
VOC	>100*
CO	19.4
NO <sub>x</sub>	179.4

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

\* The VOC potential emissions include the maximum potential use of cold mix outback asphalt.

HAP's	Unrestricted Potential Emissions (tons/yr)
Xylene	4.9
TOTAL	4.9

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM-10, SO<sub>2</sub>, and NO<sub>x</sub> are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions  
This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 but there is an applicable New Source Performance Standard that became in effect on August 7, 1980, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

### Potential to Emit After Issuance

The source, issued a FESOP on December 9, 1996, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP. (F165-5566-03227; issued on December 9, 1996).



	Potential to Emit After Issuance (tons/year)						
Process/emission unit	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Batch Mix and Dryer	92.0	Less than 92.0	Less than 90.6	0.3	6.0	Less than 56.8	4.9
Storage	0.1	--	--	--	--	--	--
Conveying	1.7	0.2	--	--	--	--	--
Tri-axle Truck	6.5	1.8	--	--	--	--	--
Front-End Loader	17.0	4.5	--				
Insignificant Heaters	0.2	0.1	8.4	--	0.6	2.4	--
Cold Mix Cutback Asphalt	--	--	--	Less than 98.7	--	--	--
Total PTE After Issuance	118.0	Less than 98.7	Less than 99.0	Less than 98.7	6.6	Less than 59.2	4.9

### County Attainment Status

The source is located in Vermillion County.

Pollutant	Status
PM-10	Maintenance
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Vermillion County has been designated as attainment or unclassifiable for ozone.
- (b) Vermillion County has been classified as attainment or unclassified for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

### Federal Rule Applicability

- (a) The storage tanks ID#14, 15, 16, 17, 18, and 19 are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60, Subpart Kb), because all of these tanks were built prior to July 23, 1984, the applicability date for this rule.
- (b) The asphalt plant is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60, Subpart I), because it was constructed in 1972 prior to June 11, 1973, the applicability date for this rule. There have been no modifications or reconstruction of equipment since this time.

- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

**State Rule Applicability - Entire Source**

**326 IAC 2-6 (Emission Reporting)**

This source is located in Vermillion County and the potential to emit all criteria pollutants is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

**326 IAC 5-1 (Visible Opacity Limitations)**

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

**326 IAC 2-8-4 (FESOP)**

- (a) Pursuant to 326 IAC 2-8-4, the emissions of PM-10 from the aggregate dryer/mixer shall be limited to 0.14 pounds of PM-10 per ton of asphalt produced. This is equivalent to PM-10 emissions of 92 tons per year. Compliance with this limit makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.
- (b) Pursuant to 326 IAC 2-8-4, the total usage of #4 fuel oil for the aggregate dryer/mixer shall be limited to 2,415,200 gallons per twelve consecutive month period. For the purpose of determining compliance with this limit, one gallon of #2 fuel oil shall be considered equivalent to 0.93 gallons of #4 fuel oil. This usage limit is equivalent to SO<sub>2</sub> emissions of 90.6 tons per year and NO<sub>x</sub> emissions of 56.8 tons per year. The SO<sub>2</sub> and NO<sub>x</sub> emissions for the whole source, including controls and limits, are 99.0 tons per year and 59.2 tons per year, respectively. Compliance with this limit makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.
- (c) Pursuant to 326 IAC 2-8 (Miscellaneous Operations: Asphalt Paving), the liquid binder used in cold mix asphalt production shall be limited as follows:
- (1) Cutback asphalt rapid cure liquid binder usage shall not exceed 98.7 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
- (2) Cutback asphalt medium cure liquid binder usage shall not exceed 134.2 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
- (3) Cutback asphalt slow cure liquid binder usage shall not exceed 375.1 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
- (4) Emulsified asphalt with solvent liquid binder usage shall not exceed 201.3 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

- (5) Other asphalt with solvent liquid binder shall not exceed 3,750.6 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
- (6) The VOC solvent allotments in (1) through (5) above shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period rolled on a monthly basis. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

$$\frac{\text{Tons of solvent contained in binder}}{\text{Adjustment ratio}} = \text{tons of VOC emitted}$$

Type of binder	tons VOC solvent	adjustment ratio	tons VOC emitted
cutback asphalt rapid cure		1	
cutback asphalt medium cure		1.36	
cutback asphalt slow cure		3.8	
emulsified asphalt		2.04	
other asphalt		38	

The equivalent total tons of VOC of the combined liquid binders shall be less than 98.7 tons per twelve (12) consecutive month period rolled on a monthly basis. This limit makes 326 IAC 2-7 not applicable.

**326 IAC 2-2 (Prevention of Significant Deterioration)**

This source is an existing source as of 1972, therefore, limits to ensure compliance with 326 IAC 2-2 are not necessary.

**326 IAC 8-1-6 (New Facilities - General Reduction Requirement)**

This aggregate dryer/mixer does not have potential VOC emissions equal to or greater than twenty five (25) tons per year, therefore this aggregate dryer/mixer is not subject to the provisions of 326 IAC 8-1-6.

**326 IAC 6-4 (Fugitive Dust Emissions)**

Pursuant to 326 IAC 6-4, the source shall not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

**326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)**

This source received all the necessary preconstruction approvals before December 13, 1985, the applicability date for this rule. Therefore, 326 IAC 6-5 does not apply.

## State Rule Applicability - Individual Facilities

### 326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the aggregate dryer/ mixer, material conveying and handling operations shall each not exceed 55 pounds per hour when operating at a process weight rate of 300,000 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

The twin cyclones and scrubber shall be in operation at all times the aggregate dryer/mixer is in operation, in order to comply with this limit.

### 326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the welding operation shall be limited by the following:

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

### 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving)

The aggregate dryer/mixer was constructed in 1972 which is prior to January 1, 1980, the applicability date for this rule.

### 326 IAC 7-1.1-2 (Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations)

Pursuant to 326 IAC 7-1.1-2, the SO<sub>2</sub> emissions from the aggregate dryer/mixer shall not exceed five tenths (0.5) pounds per MMBtu heat input.

### 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels) does not apply to this source because this source is located in Vermillion County and this rule applies to sources located in Clark, Floyd, Lake, or Porter County.

## Testing Requirements

The Permittee shall perform PM-10 testing utilizing methods as approved by the Commissioner to document compliance with 326 IAC 2-8-4. This test shall be repeated at least once every five years from the date of the last valid compliance demonstration. PM-10 includes filterable and condensable PM-10.

## Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a

result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

All compliance requirements from previous approvals were incorporated into this FESOP. The compliance monitoring requirements applicable to this source are as follows:

1. The aggregate dryer/mixer has applicable compliance monitoring conditions as specified below:
  - (a) Visible emissions notations of the aggregate dryer/mixer stack exhaust shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
  - (b) An inspection shall be performed each calendar quarter of all cyclones controlling the aggregate dryer/mixer when venting to the atmosphere. A cyclone inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors.
  - (c) In the event that cyclone failure has been observed, the failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
  - (d) The Permittee shall record the water pump pressure, the fan motor amperage, and the pressure drop across the scrubber used in conjunction with the aggregate dryer/mixer, at least once per shift when the aggregate dryer/mixer is in operation when venting to the atmosphere. If the water pump pressure and the fan motor amperage are abnormal, these systems shall be immediately checked and restored to proper operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the scrubber shall be maintained within the range of 1.0 and 8.0 inches of water or a range established during the latest stack test.

These monitoring conditions are necessary because the twin cyclones and scrubber for the aggregate dryer/mixer must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations) and 326 IAC 2-8 (FESOP).

### **Conclusion**

The operation of this stationary hot batch-mix asphalt plant shall be subject to the conditions of the attached FESOP No.: F165-14174-03227.

**Appendix A: Emission Calculations**

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**Emission Calculations****Conventional Batch Mix Plant: Rotary Dryer****Company Name: Standard Asphalt****Address City IN Zip: Junction of State Road 63 and North Main Street, Clinton, IN 47842****CP: 165-14174****Plt ID: 165-03227****Reviewer: ERG/AR****Date: October 24, 2001**

Maximum Capacity
150 tons/hr

	Uncontrolled Emission Factors
PM	32 lbs/ton
PM-10	4.5 lbs/ton
Total HAPs	0.0075 lbs/ton

	Controlled Emission Factors
PM	0.14 lbs/ton
PM-10	0.14 lbs/ton
Total HAPs	0.0075 lbs/ton

See page 3 of the appendix for emission estimates for the other pollutants of combustion from the rotary dryer.

Uncontrolled Emissions (tons/yr)	PM	PM-10	HAPs
	21024	2956.5	4.9

Controlled Emissions (tons/yr)	PM	PM-10	HAPs
	92.0	92.0	4.9

Methodology: (Maximum capacity)\*(8760 hr/yr)\*(emission factor)\*(1 ton/2000 lbs)

\* Emission factors are from AP-42 Chapter 11.1, Table 11.1-1 and Table 11.1-9

\* The largest HAP is Xylene.

**Appendix A: Emission Calculations****Aggregate Dryer/Mixer****#4 Fuel Oil****Company Name: Standard Asphalt****Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842****CP: 165-14174****Plt ID: 165-03227****Reviewer: ERG/AR****Date: October 24, 2001**Heat Input Capacity  
MMBtu/hrPotential Throughput  
kgals/year

S = Weight % Sulfur

0.5

129.0

7533.6

Emission Factor in lb/kgal	Pollutant			
	SO <sub>2</sub> 75.0 (150 S)	NO <sub>x</sub> 47.0	VOC 0.34	CO 5.0
Potential Emission in tons/yr	282.5	177.0	1.3	18.8

The emissions of PM and PM10 from the Rotary Dryer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on page 1. The emissions of SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO are estimated using the boiler emission factors from AP-42 Chapter 1.4, as shown above. These boiler emission factors are being used for these pollutants based on IDEM guidance.

\* The weight % sulfur is calculated to be 0.5 % sulfur in order to be in compliance with 326 IAC 7-1.1-2.

**Methodology**

1 gallon of No. 4 Fuel Oil has a heating value of 150,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.150 MMBtu

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 ( SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton



**Appendix A: Emission Calculations**  
**Aggregate Dryer/Mixer**  
**#4 Fuel Oil Limited Throughput**  
**Limited Throughput**  
**Company Name: Standard Asphalt**  
**Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842**  
**CP: 165-14174**  
**Plt ID: 165-03227**  
**Reviewer: ERG/AR**  
**Date: October 24, 2001**

Limited Throughput  
kgals/year

S = Weight % Sulfur

0.5

2415.2

	Pollutant			
	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
Emission Factor in lb/kgal	75.0 (150 S)	47.0	0.216	5.0
Potential Emission in tons/yr	90.6	56.8	0.3	6.0

The emissions of PM and PM10 from the Rotary Dryer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on page 1. The emissions of SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO are estimated using the boiler emission factors from AP-42 Chapter 1.4, as shown above. These boiler emission factors are being used for these pollutants based on IDEM guidance.

\* The weight % sulfur is calculated to be 0.5 % sulfur in order to be in compliance with 326 IAC 7-1.1-2.

**Methodology**

1 gallon of No. 4 Fuel Oil has a heating value of 150,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.150 MMBtu

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 ( SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

**Appendix A: Emission Calculations**  
**Aggregate Dryer/Mixer**  
**#2 Fuel Oil (Back up fuel oil)**

**Company Name: Standard Asphalt**  
**Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842**  
**CP: 165-14174**  
**Plt ID: 165-03227**  
**Reviewer: ERG/AR**  
**Date: October 24, 2001**

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
129.0	8071.7	0.446

Emission Factor in lb/kgal	Pollutant			
	SO <sub>2</sub> 70.022 (157.0 S)	NO <sub>x</sub> 24.0	VOC 0.34	CO 5.0
Potential Emission in tons/yr	282.6	96.9	1.4	20.2

The emissions of PM and PM10 from the Rotary Dryer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on page 1. The emissions of SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO are estimated using the boiler emission factors from AP-42 Chapter 1.4, as shown above. These boiler emission factors are being used for these pollutants based on IDEM guidance.

\* The weight % sulfur is calculated to be 0.446 % sulfur in order to be in compliance with 326 IAC 7-1.1-2.

**Methodology**

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 ( SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

**Appendix A: Emission Calculations**  
**Aggregate Dryer/Mixer**  
**#2 Fuel Oil (back up fuel oil)**  
**Limited Throughput**  
**Company Name: Standard Asphalt**  
**Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842**  
**CP: 165-14174**  
**Plt ID: 165-03227**  
**Reviewer: ERG/AR**  
**Date: October 24, 2001**

Limited Throughput  
kgals/year

S = Weight % Sulfur

0.446

2587.7

Emission Factor in lb/kgal	Pollutant			
	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
	70.022 (157.0 S)	24.0	0.34	5.0
Potential Emission in tons/yr	90.6	31.1	0.4	6.5

The emissions of PM and PM10 from the Rotary Dryer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on page 1. The emissions of SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO are estimated using the boiler emission factors from AP-42 Chapter 1.4, as shown above. These boiler emission factors are being used for these pollutants based on IDEM guidance.

\* The weight % sulfur is calculated to be 0.446 % sulfur in order to be in compliance with 326 IAC 7-1.1-2.

**Methodology**

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 ( SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

**Appendix A: Emission Calculations**  
**Insignificant Heaters (Two hot oil heaters each with a maximum heat input capacity of 1.9 MMBtu/hr)**  
**#2 Fuel Oil**

**Company Name: Standard Asphalt**  
**Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842**  
**CP: 165-14174**  
**Plt ID: 165-03227**  
**Reviewer: ERG/AR**  
**Date: October 24, 2001**

Heat Input Capacity  
MMBtu/hr

Potential Throughput  
kgals/year

S = Weight % Sulfur

0.5

3.8

237.8

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
	2.0	1.0	71 (142.0 S)	20.0	0.34	5.0
Potential Emission in tons/yr	0.2	0.1	8.4	2.4	0.0	0.6

**Methodology**

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

**Appendix A: Emission Calculations****Fuel Usage Limit for the Aggregate Dryer/Mixer****Company Name: Standard Asphalt****Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842****CP: 165-14174****Plt ID: 165-03227****Reviewer: ERG/AR****Date: October 24, 2001**

Maximum Heat Input =	129 MMBtu/hr
Potential Emissions From Fuel Oil #4 in	
SO <sub>2</sub>	282.6
NO <sub>x</sub>	177
VOC	1.3
CO	18.8

SO<sub>2</sub>99 tpy - 8.4 tpy = 90.6 tpy limited SO<sub>2</sub>

Potential #4 usage = (129 MMBtu/hr)\*(8760 hr/yr)\*(1 gal/0.15 MMBtu)\*(1 kgal/1000 gal) = 7533.6 kgal/yr

**Fuel Usage Limit for #4 = (90.6 tpy/282.6 tpy)\*(7533.6 kgal/yr) = 2415.2 kgal/year**

Maximum Heat Input =	129 MMBtu/hr
Potential Emissions From Fuel Oil #2 in	
SO <sub>2</sub>	282.6
NO <sub>x</sub>	96.9
VOC	1.4
CO	20.2

SO<sub>2</sub>99 tpy - 8.4 tpy = 90.6 tpy limited SO<sub>2</sub>

Potential #2 usage = (129 MMBtu/hr)\*(8760 hr/yr)\*(1 gal/.14 MMBtu)\*(1 kgal/1000 gal) = 8071.7 kgal/yr

**Fuel Usage Limit for #2 = (90.6 tpy/282.6 tpy)\*(8071.7 kgal/yr) = 2587.8 kgal/year**

Determine Fuel Equivalence:

Primary fuel is #4 oil. The potential emissions of sulfur dioxide are 282.6 tons/year. Take a fuel limit of 2,415.2 kgal/year.

Then, (282.6 tons of SO<sub>2</sub>/yr)\*(1 yr/2,415.2 kgal) = 0.117 ton of SO<sub>2</sub> per Kgal of #4 oil.

Back-up fuel is #2 oil. The potential emissions of sulfur dioxide are 282.6 tons/year. Take a fuel limit of 2,587.8 kgal/year.

Then, (282.6 tons of SO<sub>2</sub>/yr)\*(1 yr/2,587.8 kgal) = 0.109 ton of SO<sub>2</sub> per Kgal of #2 oil.**To determine fuel equivalence: (0.109/0.117) = 0.93.**

**Appendix A: Emission Calculations****Potential to Emit Calculations for Unpaved Roads****Company Name: Standard Asphalt****Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842****CP: 165-14174****Plt ID: 165-03227****Reviewer: ERG/AR****Date: October 24, 2001**

Equation: 
$$Ef = \frac{k*(s/12)^a*(w/3)^b}{(M_{dry}/0.2)^c}$$

where:

Ef = emission factor (lb/VMT)

k = empirical constants

s = surface material silt content (%)

W = mean vehicle weight (tons)

M = surface material moisture content (%)

a = empirical constant

b = empirical constant

c = empirical constant

S = average vehicle speed (miles/hour)

**Tri-axle Truck**

	PM-10	PM
k =	2.6	10
s =	4.8	4.8
W =	21	21
a =	0.8	0.8
b =	0.4	0.5
c =	0.3	0.4
M =	3	3
S =	10	10
Ef =	1.21	4.30
Miles traveled per year =	9054.34	9054.34
Emissions (tons/year) =	5.47	19.48
Emissions Corrected (tons/year) =	3.64	12.99

The emissions were corrected by multiplying by (S/15) in order to correct for the speeds being lower than 15 miles/hour.

The equation and constants were taken from AP-42, Chapter 13.2.2 Unpaved Roads.

**Appendix A: Emission Calculations****Potential to Emit Calculations for Unpaved Roads****Company Name: Standard Asphalt****Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842****CP: 165-14174****Plt ID: 165-03227****Reviewer: ERG/AR****Date: October 24, 2001**

Equation:

$$Ef = \frac{k*(s/12)^a*(w/3)^b}{(M_{dry}/0.2)^c}$$

where:

Ef = emission factor (lb/VMT)

k = empirical constants

s = surface material silt content (%)

W = mean vehicle weight (tons)

M = surface material moisture content (%)

a = empirical constant

b = empirical constant

c = empirical constant

S = average vehicle speed (miles/hour)

**Front End Loader**

	PM-10	PM
k =	2.6	10
s =	4.8	4.8
W =	35	35
a =	0.8	0.8
b =	0.4	0.5
c =	0.3	0.4
M =	3	3
S =	10	10
Ef =	1.48	5.56
Miles traveled per year =	18396	18396
Emissions (tons/year) =	13.62	51.09
Emissions Corrected (tons/year) =	9.08	34.06

The emissions were corrected by multiplying by (S/15) in order to correct for the speeds being lower than 15 miles/hour.

The equation and constants were taken from AP-42, Chapter 13.2.2 Unpaved Roads.

**Appendix A: Emission Calculations****Potential to Emit Calculations for Conveying and Handling****Company Name: Standard Asphalt****Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842****CP: 165-14174****Plt ID: 165-03227****Reviewer: ERG/AR****Date: October 24, 2001**

Handle: 142.5 tons/hr

$$Ef = .0032 * \frac{(U/5)^{1.3}}{(M/2)^{1.4}} * k$$

where:

k = 1 1 (particle size multiplier)

M = 5 % moisture

U = 12 mph mean wind speed (worst case)

$$Ef = 0.0028 \text{ lb/ton}$$

$$\text{PM} = 1.73 \text{ tons/yr}$$

$$\text{PM-10} = 0.17 \text{ tons/yr}$$

**Methodology:**

Use the above equation to determine the emission factor (Ef).

Then, (Ef)\*(142.5 tons/yr)\*(8760 hr/yr)\*(1 ton/2000 lbs)

The emission factor equation was taken from AP-42, Chapter 13.2.4.



## Appendix A: Emission Calculations

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### Potential to Emit Calculations for Storage Piles

Company Name: Standard Asphalt

Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842

CP: 165-14174

Plt ID: 165-03227

Reviewer: ERG/AR

Date: October 24, 2001

$$E_f = \frac{1.7 \cdot (s/1.5) \cdot (365 - p)}{235 \cdot (f/15)}$$

where:

s =	1.1 % silt for sand
s =	1.2 % silt for stone
s =	1 % silt for slag
s =	0.9 % silt for gravel
s =	0.8 % silt for RAP
p =	125 days of rain greater than or equal to 0.01 inches
f =	15 % of wind greater than or equal to 12 mph

E <sub>f</sub> =	1.27 lb/acre/day for sand
E <sub>f</sub> =	1.39 lb/acre/day for stone
E <sub>f</sub> =	1.16 lb/acre/day for slag
E <sub>f</sub> =	1.04 lb/acre/day for gravel
E <sub>f</sub> =	0.93 lb/acre/day for RAP

$$E_p (\text{storage}) = \frac{E_f \cdot sc \cdot (20 \text{ cuft/ton}) \cdot (365 \text{ day/yr})}{(2000 \text{ lb/ton}) \cdot (43560 \text{ sqft/acre}) \cdot (25 \text{ ft})}$$

sc =	22,000 tons storage capacity for sand
sc =	8,000 tons storage capacity for stone
sc =	10000 tons storage capacity for slag
sc =	12000 tons storage capacity for gravel
sc =	0 tons storage capacity for RAP

E <sub>p</sub> =	0.09 tons/yr for sand
E <sub>p</sub> =	0.04 tons/yr for stone
E <sub>p</sub> =	0.04 tons/yr for slag
E <sub>p</sub> =	0.04 tons/yr for gravel
E <sub>p</sub> =	0.00 tons/yr for RAP

**E<sub>p</sub> Total = 0.21 tons/yr of PM**

PM-10 = 35% of PM:

E <sub>p</sub> =	0.03 tons/yr for sand
E <sub>p</sub> =	0.01 tons/yr for stone
E <sub>p</sub> =	0.01 tons/yr for slag
E <sub>p</sub> =	0.01 tons/yr for gravel
E <sub>p</sub> =	0.00 tons/yr for RAP

**E<sub>p</sub> Total = 0.07 tons/yr of PM-10**

50% is emitted after controls

PM =	0.11 tons/yr
PM-10 =	0.04 tons/yr

**Appendix A: Emission Calculations**

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**Summary Table****Company Name: Standard Asphalt****Address City IN Zip: State Road 63 & North Main Street, Clinton, Indiana 47842****CP: 165-14174****Plt ID: 165-03227****Reviewer: ERG/AR****Date: October 24, 2001****Uncontrolled Emissions in tons/year**

	<b>PM</b>	<b>PM-10</b>	<b>SO2</b>	<b>Nox</b>	<b>VOC</b>	<b>CO</b>	<b>HAPs</b>
Batch Mixer and Dryer	21024	2956.5	282.5	177.0	1.3	18.8	4.9
Storage	0.2	0.1	----	----	----	----	----
Conveying	1.7	0.2	----	----	----	----	----
Tri-axle Truck	13.0	3.6	----	----	----	----	----
Front End Loader	34.1	9.1	----	----	----	----	----
Insignificant Heaters	0.2	0.1	8.4	2.4	----	0.6	----
<b>Total =</b>	<b>21073.2</b>	<b>2969.6</b>	<b>290.9</b>	<b>179.4</b>	<b>1.3</b>	<b>19.4</b>	<b>4.9</b>

**Controlled and Limited Emissions in tons/year**

	<b>PM</b>	<b>PM-10</b>	<b>SO2</b>	<b>Nox</b>	<b>VOC</b>	<b>CO</b>	<b>HAPs</b>
Batch Mixer and Dryer	92.0	92.0	90.6	56.8	0.3	6.0	4.9
Storage	0.1	0.0	----	----	----	----	----
Conveying	1.7	0.2	----	----	----	----	----
Tri-axle Truck	6.5	1.8	----	----	----	----	----
Front End Loader	17.0	4.5	----	----	----	----	----
Insignificant Heaters	0.2	0.1	8.4	2.4	----	0.6	----
<b>Total =</b>	<b>117.5</b>	<b>98.7</b>	<b>99.0</b>	<b>59.2</b>	<b>0.3</b>	<b>6.6</b>	<b>4.9</b>